

# PONYL 4006G25

Polyamide 6  
POLYROCKS CHEMICAL CO., LTD

Message:

PONYL-4006G(+) are alkali-free environmental glass fiber reinforced PA6 material. They have the characteristics of wear resistance,heat resistance,oil resistance and chemical resistance;and also the characteristics of low equilibrium water absorption,small mould shrinkage,good dimensional stability and superior mechanism strength. 4006G(+) pass UL test and meet the requirements of RoHS, SVHC, PFOS&PFOA, 16P, Halogen-free and PAHs.

| General Information    |  |
|------------------------|--|
| Filler / Reinforcement | Glass Fiber,25% Filler by Weight                   |
| Features               | Good Chemical Resistance                           |
|                        | Good Dimensional Stability                         |
|                        | Good Wear Resistance                               |
|                        | Halogen Free                                       |
|                        | Low to No Water Absorption                         |
|                        | Medium Heat Resistance                             |
| Uses                   | Oil Resistant                                      |
|                        | Automotive Applications<br>Engineered Applications |

| Physical  | Nominal Value | Unit              | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity  | 1.31          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)               | 13            | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                                | 0.20 to 0.80  | %                 | ASTM D955   |
| Water Absorption (Equilibrium)                          | 2.1 to 2.5    | %                 | ASTM D570   |
| Mechanical  | Nominal Value | Unit              | Test Method |
| Tensile Strength (Yield)                                | 160           | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 12            | %                 | ASTM D638   |
| Flexural Modulus  | 6800          | MPa               | ASTM D790   |
| Flexural Strength                                       | 240           | MPa               | ASTM D790   |
| Impact  | Nominal Value | Unit              | Test Method |
| Notched Izod Impact                                     | 110           | J/m               | ASTM D256   |
| Thermal   | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 207           | °C                | ASTM D648   |
| Electrical  | Nominal Value | Unit              | Test Method |
| Comparative Tracking Index                              | 575           | V                 | IEC 60112   |
| Flammability  | Nominal Value | Unit              | Test Method |
| Flame Rating  |               |                   | UL 94       |

|         |    |
|---------|----|
| 1.50 mm | HB |
| 3.00 mm | HB |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

